

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

Claims 1 — 8: (Canceled)

9. (Currently Amended) A device for the UV treatment of fluids flowing in a single flow channel, comprising:

a plurality of cylindrical low-pressure mercury UV emitters that are arranged in groups in a said single flow channel, wherein longitudinal axes of said UV emitters are disposed substantially parallel to one another and transverse to the flow of fluid in said single flow channel such that the UV emitters of a given group are disposed in a plane and the direction of the flow of fluid in said single flow channel is entirely transverse to the UV emitters;

at least one elongated sensor arrangement also arranged in said single flow channel and adapted to monitor an operating state of said UV emitters, wherein said at least one elongated sensor arrangement is spaced from and parallel to one of said groups of said UV emitters, wherein said at least one elongated sensor arrangement extends substantially transverse to said longitudinal axes of said UV emitters of the adjacent group, and wherein said at least one elongated sensor arrangement is provided with a separate UV sensor for each UV emitter of that group; and

at least one unit connected with said at least one elongated sensor arrangement and adapted to control and/or regulate said UV emitters.

10. (Original) A device according to claim 9, wherein said at least one elongated sensor arrangement is disposed in a quartz tube.

11. (Canceled)

12. (Original) A device according to claim 9, wherein said at least one elongated sensor arrangement is disposed transverse to a direction of flow of said fluids in said flow channel.

13. (Original) A device according to claim 9, wherein said at least one elongated sensor arrangement is provided with a support plate that carries said UV sensors.

14. (Original) A device according to claim 13, wherein said at least one elongated arrangement is disposed between two groups of said UV emitters, wherein said support plate carries said UV sensors on two oppositely facing flat sides thereof, and wherein said UV sensors of a given flat side of said support plate face a respective one of said groups of UV emitters.
15. (Original) A device according to claim 9, wherein each of said UV sensors is provided with a current/voltage transformer and a digital module, and wherein said UV sensors of said at least one elongated sensor arrangement communicate with said at least one unit via a common data bus.
16. (Original) A device according to claim 9, wherein at least one guide sensor is disposed externally of said at least one elongated sensor arrangement, and wherein said at least one guide sensor detects UV radiation emitted by said UV emitters, relative to which radiation individual ones of said UV sensors are adapted to be calibrated.
17. (Previously Presented) A device according to claim 10, wherein said quartz tube contains a plurality of said UV sensors.